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FIG. 1

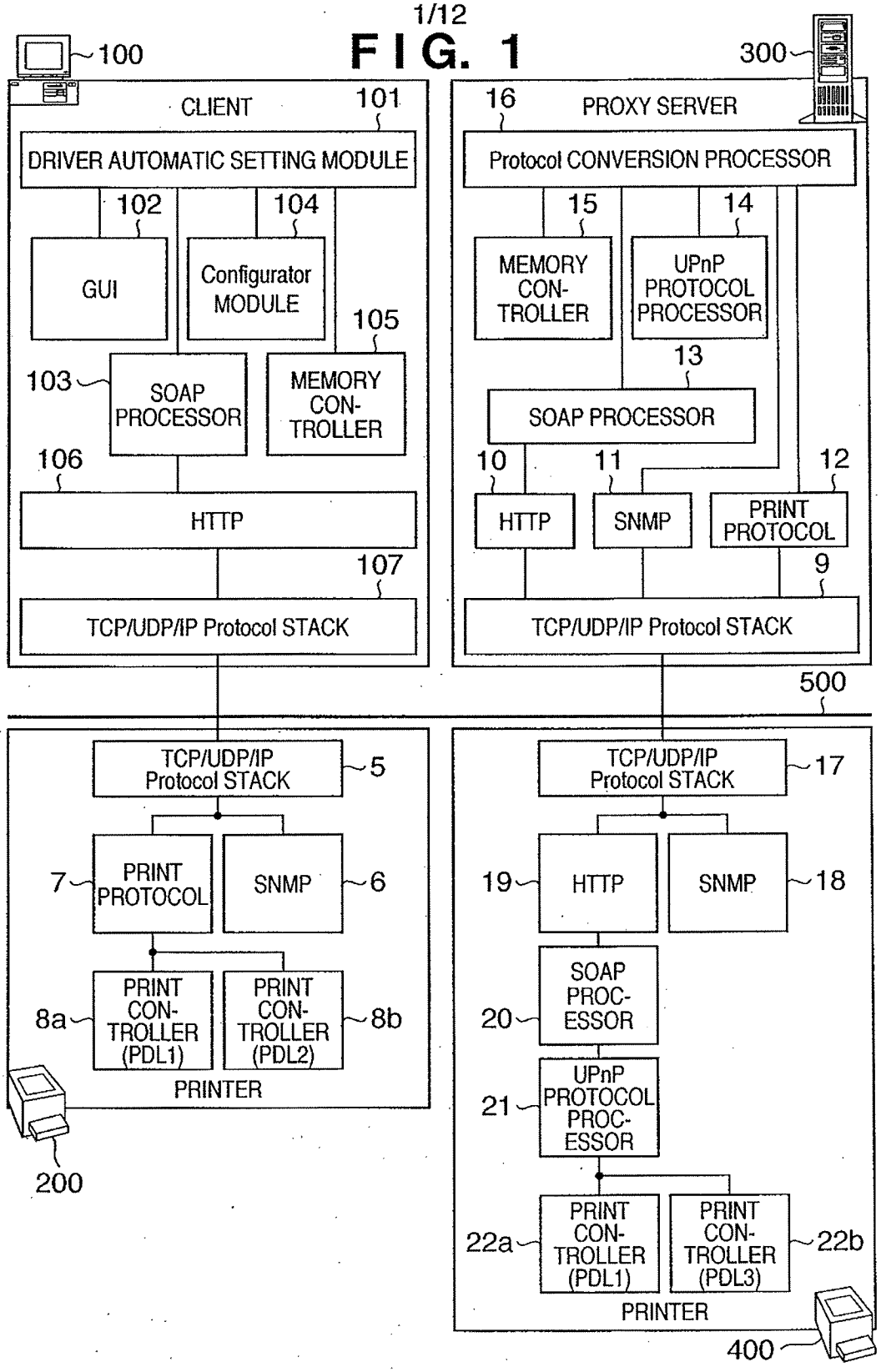

FIG. 2

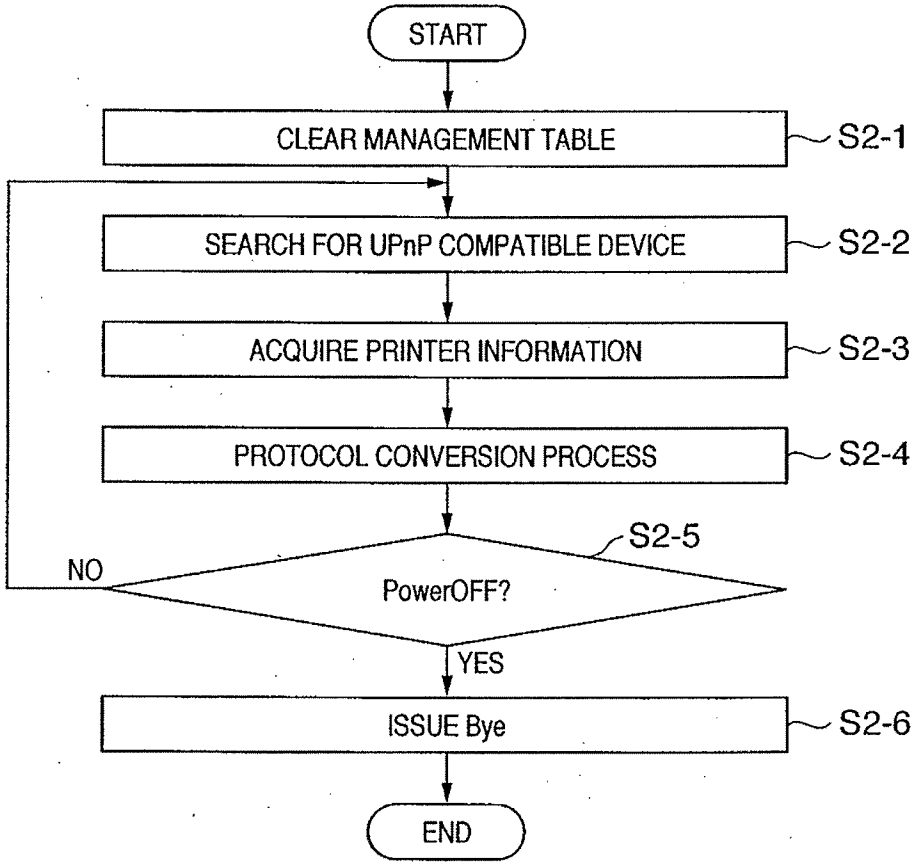
START
CLEAR MANAGEMENT TABLE
S2-1
SEARCH FOR UPnP COMPATIBLE DEVICE
S2-2
ACQUIRE PRINTER INFORMATION
S2-3
PROTOCOL CONVERSION PROCESS
S2-4
S2-5
NO
PowerOFF?
YES
ISSUE Bye
S2-6
END

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FIG. 3

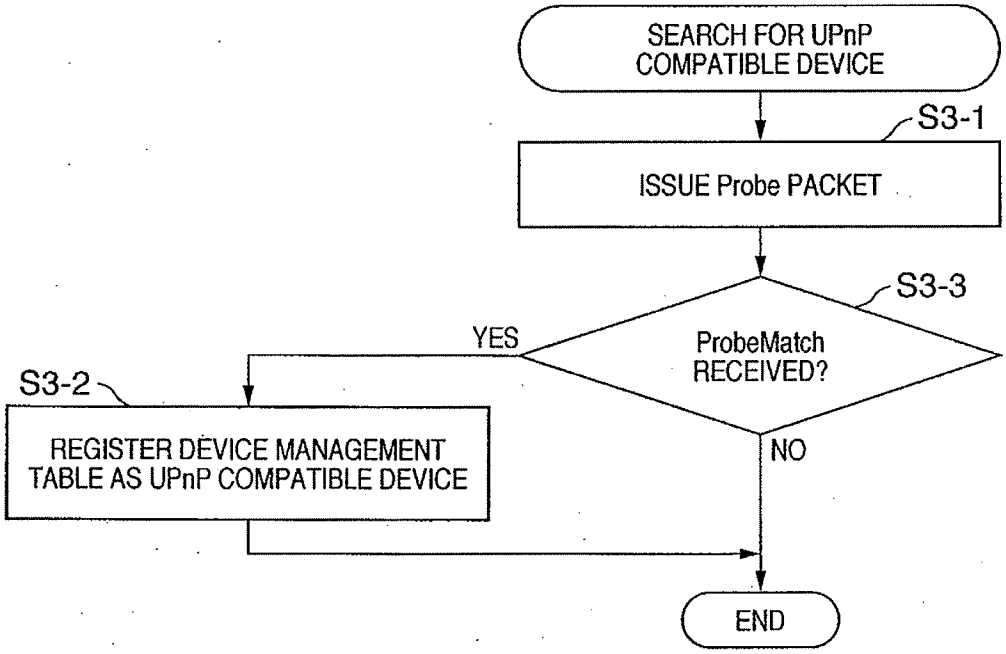

FIG. 4

```
<Envelope>
  <Header>
    <Action>
      http://xxx/Probe
    </Action>
    <MessageID>
      uuid:0a6dc791-2be6-4991-9af1-454778a1917e
    <MessageID>
  </Header>
  <Body>
    <Probe>
      <Type>PrintBasic</Type>
    </Probe>
  </Body>
</Envelope>
```

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FIG. 5

```
<Envelope>
  <Header>
    <Action>
      http://xxx/ProbeMatch
    </Action>
    <MessageID>
      uuid:e32e6863-ea5e-4ee4-997e-69539 d1ft2cf
    <MessageID>
    <RelatesTo>
      uuid:0a6dc791-2be6-4991-9af1-454778a1917e
    </RelatesTo>
  </Header>
  <Body>
    <ProbeMatch>
      <EndpointReference>
        <Address>
          uuid:98190dc2-0890-4ef8-ac9a-5940995e611a
        </Address>
        <Types>PrintBasicPrintAdvanced</Types>
      </EndpointReference>
    </ProbeMatch>
  </Body>
</Envelope>
```

ProbeMatch FOR 22a

```
<Envelope>
  <Header>
    <Action>
      http://xxx/ProbeMatch
    </Action>
    <MessageID>
      uuid:e32e6863-ea5e-4ee4-997e-69539 d1ft2cf
    <MessageID>
    <RelatesTo>
      uuid:0a6dc791-2be6-4991-9af1-454778a1917e
    </RelatesTo>
  </Header>
  <Body>
    <ProbeMatch>
      <EndpointReference>
        <Address>
          uuid:98190dc2-0890-4ef8-ac9a-5940995e611a
        </Address>
        <Types>PrintBasicPrintAdvanced</Types>
      </EndpointReference>
    </ProbeMatch>
  </Body>
</Envelope>
```

ProbeMatch FOR 22b

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FIG. 6

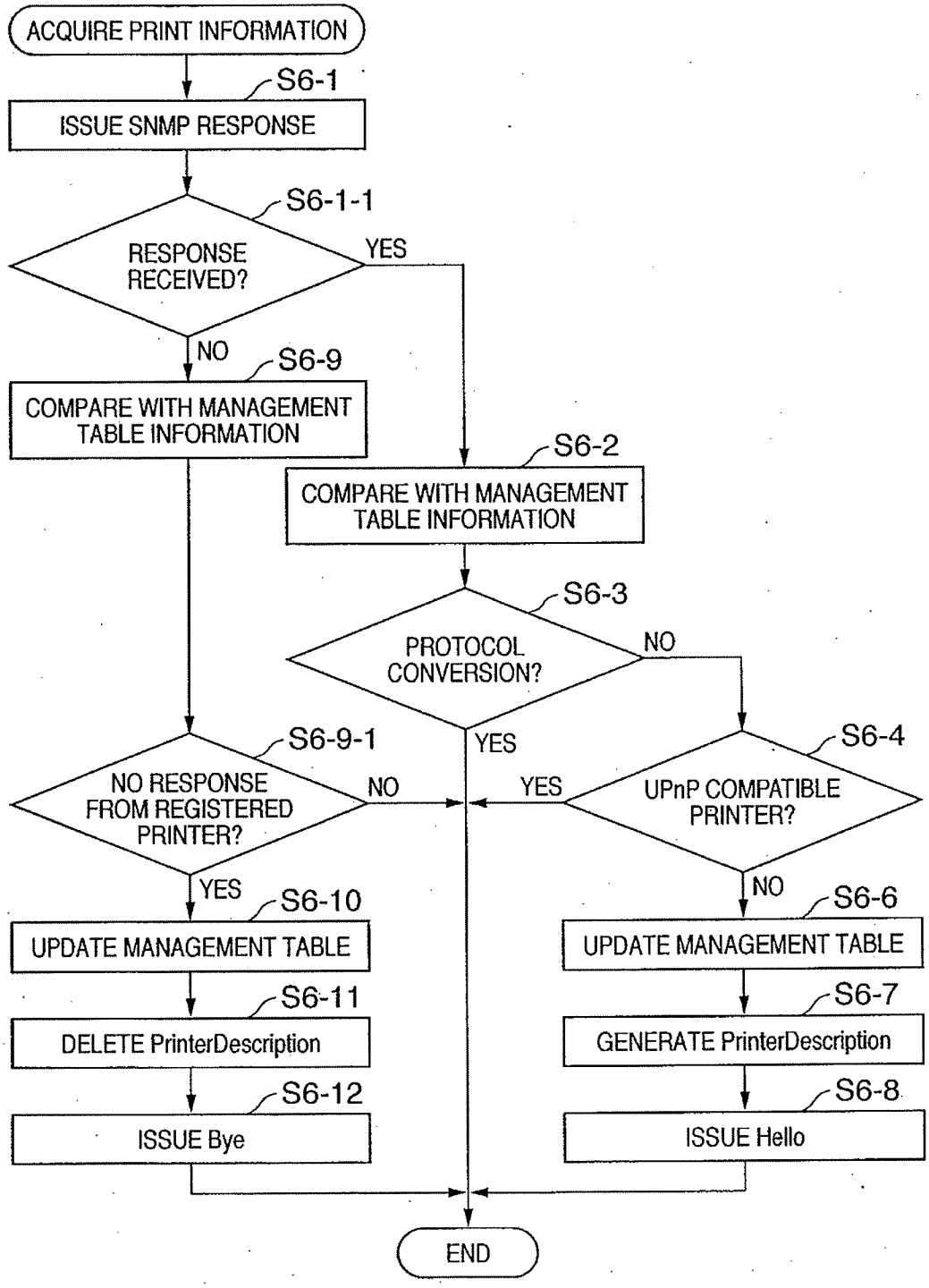

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FIG. 7

```
<PrinterTable>
  <PrinterDescription>
    <DeviceId>
      MANUFACTURER:XXXX Inc.;
      COMMAND SET:PDL1 ;
      MODEL LaserBeamPrinter777 PDL1;
    </DeviceId>                                   <-- DeviceID
    <PrinterLocation>Bldg Kosugi, Fli3, Rm3</PrinterLocation>
    <PrinterMakeAndModel> LaserBeamPrinter777 </PrinterMakeAndModel>
    <PrinterName>200 Printer </PrinterName>
    <IPAddress>123.123.123.123</IPAddress>
    <MACAddress>00-02-2D-69-43-89</MACAddress>
    <SupportedPDL>PDL1</SupportedPDL>
    <SupportedPrintProtocol>LPR</SupportedPrintProtocl>
    <Address>
      uuid98190dc2-0890-4ef8-ac9a-5940995e611c
    </Address>
    <Types>PrintBasic</Types>
  </PrinterDescription>                           } DEVICE MANAGEMENT TABLE FOR 8a
  <PrinterDescription>
    <DeviceId>
      MANUFACTURER:XXXX Inc.;
      COMMAND SET:PDL2 ;
      MODEL LaserBeamPrinter777 PDL2;
    </DeviceId>                                   <-- DeviceID
    <PrinterLocation>Bldg Kosugi, Fli3, Rm3</PrinterLocation>
    <PrinterMakeAndModel> LaserBeamPrinter777 </PrinterMakeAndModel>
    <PrinterName>200 Printer </PrinterName>
    <IPAddress>123.123.123.123</IPAddress>
    <MACAddress>00-02-2D-69-43-89</MACAddress>
    <SupportedPDL>PDL2</SupportedPDL>
    <SupportedPrintProtocol>LPR</SupportedPrintProtocl>
    <Address>
      uuid98190dc2-0890-4ef8-ac9a-5940995e611c
    </Address>
    <Types>PrintBasic</Types>
  </PrinterDescription>                           } DEVICE MANAGEMENT TABLE FOR 8b
  ...
<PrinterTable>
```

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FIG. 8

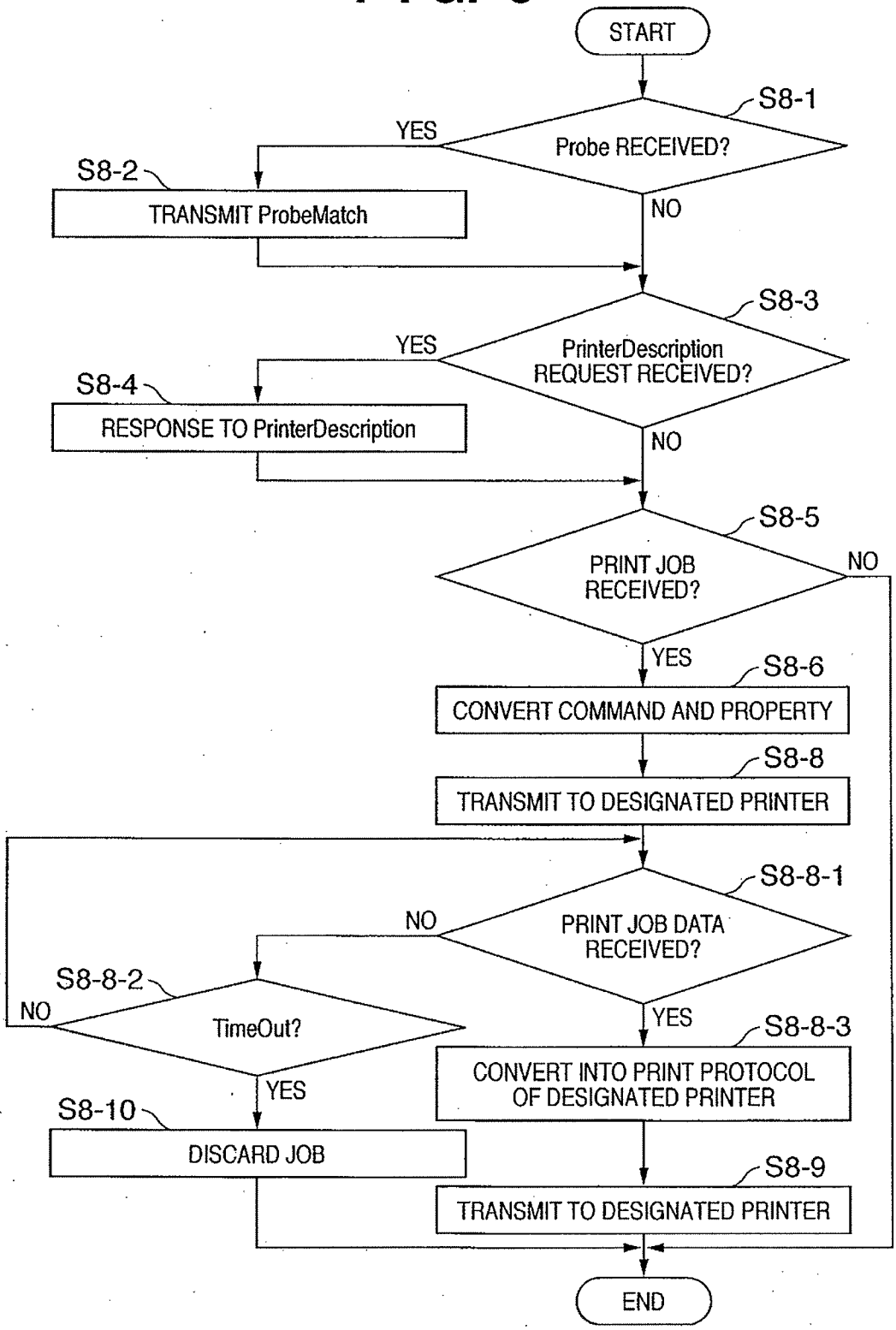

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FIG. 9

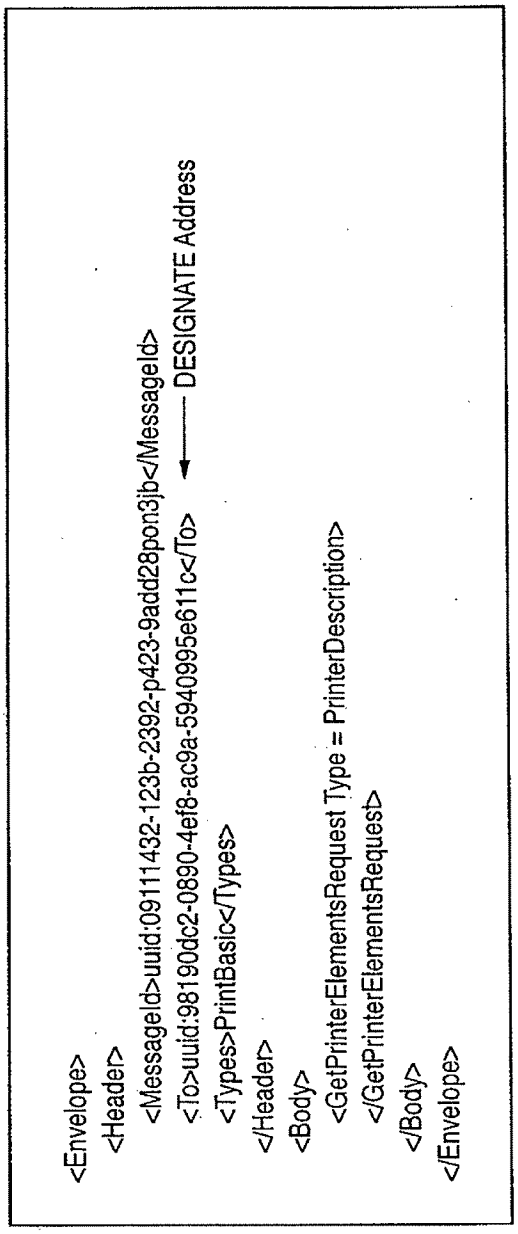

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FIG. 10

```
<Envelope>
  <Header>
    <MessageId>uuid:09111432-123b-2392-p423-9add28pon3jb</MessageId>
    <ResponseTo>uuid:09111432-123b-5555-c787-2san15pip5ec</ResponseTo>
  </Header>
  <Body>
    <GetPrinterElementsResponse Type = PrinterDescription>
      <DeviceId>
        MANUFACTURER:XXXX inc.;
        COMMAND SET:PDL1;
        MODEL:LaserBeamPrinter777 PDL1
      </DeviceId>
      <PrinterLocation>Bldg Kosugi, Flr3, Rm3</PrinterLocation>
      <PrinterMakeAndModel>LaserBeamPrinter777</PrinterMakeAndModel>
      <PrinterName>200 Printer</PrinterName>
    </GetPrinterElementsResponse>
  </Body>
</Envelope>
```

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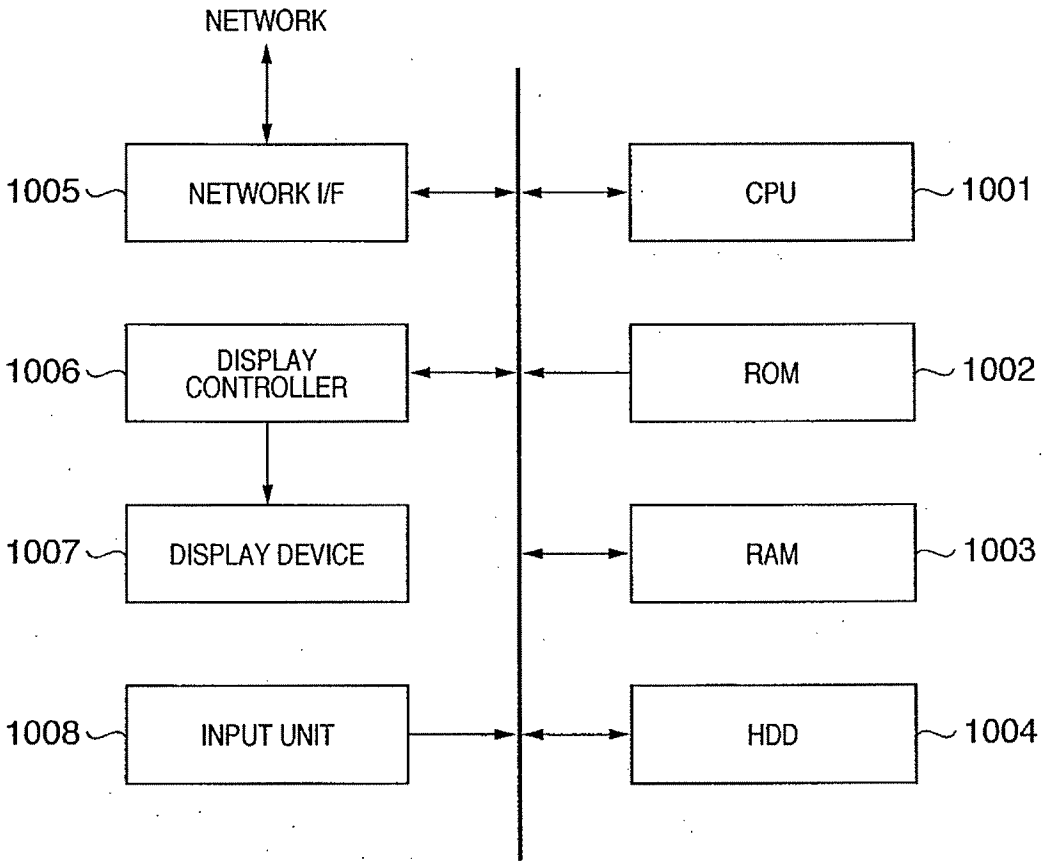
FIG. 11



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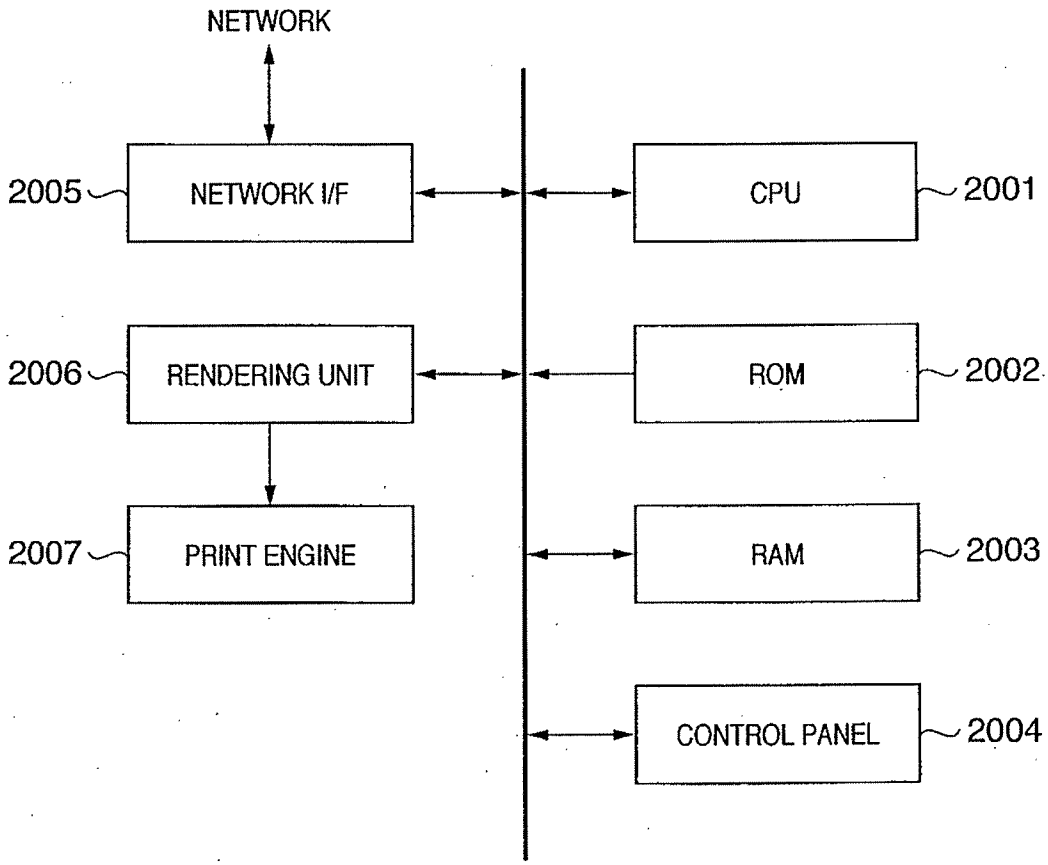
FIG. 12